



New Liquid Ultrasonic Flowmeter has Apps and is Optimized for Thermal Energy/BTU Measurement

Monterey, California (July 21, 2017) - [Sierra Instruments](#) is proud to introduce its new InnovaSonic® 207i transit-time ultrasonic liquid flow meter with thermal energy/BTU capability for superior flow measurement. Designed, built and calibrated by Sierra in Monterey, California, for non-intrusive liquid flow metering, and optimized for thermal energy/BTU measurement, the [207i transit-time ultrasonic flow meter](#) is the ideal turnkey solution for building and district metering, and sub metering.

The 207i is an ideal solution for thermal energy/BTU metering. The 207i calculates thermal energy / BTU by determining the amount of heat transferred between the cold and hot flow legs of a heating or cooling process. This provides end users with the high quality flow energy data required to manage energy costs.

The 207i also makes installation much easier. Clamp-on sensors means no pipe cutting or expensive plumbing. In addition, a unique visual sensor spacing tool on the local display, or via software app, allows end users to slightly move the sensors together or apart to position an indicator line between “goal posts” to ensure optimal signal strength. This gives peace of mind that the meter is installed correctly and ready to measure flow.

The 207i ensures accuracy of +/-0.5% of reading from 0.16 to 40 ft/s (0.05 to 12 m/s) even if liquid density changes as the temperature of a flowing liquid moves up and down over time. The 207i is the first ultrasonic flow meter to have dynamic real-time liquid density compensation to assure the best possible accuracy. Since transit-time ultrasonic flow meters measure liquid flow rate by detecting the speed of sound in the liquid, a small change in liquid density will impact the speed of sound measurement and thus impact accuracy. Unlike other ultrasonic meters that assume a fixed liquid density, the 207i calculates liquid density in real-time by adding a temperature input from a transmitter provided by Sierra or by using an external input from an existing transmitter.

The 207i is also the first transit-time ultrasonic flow meter to come with a comprehensive software package of apps for ease of use, field upgrades, and calibration validation. Engineers and operators can use apps like MeterFit™ to help optimize signal strength to ensure best performance. EnergyPro™ allows you to fully configure your thermal energy / BTU flow energy measurement system, including datalogging and totalization of all energy functions. Apps like ValidCal™ Diagnostics make field calibration validation easy. Engineers and operators can use apps for easy setup, field upgrades, and validation of hardware and firmware.

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Key Features of 207i:

- Accuracy +/-0.5% of reading from 0.16 to 40 ft/s (0.05 to 12 m/s)
- Fluid: Water and all liquids
- Flow range from 0.16 to 40 feet/sec (0.05 to 12 meters/sec)
- Pipe sizes from 2 to 236 inches (50 to 6000 mm)
- Real-time dynamic density and heat capacity calculation as liquid temperature changes
- Ease-of-use and installation with software apps
- Clamp-on or insertion/optional RTDs for Thermal Energy/BTU
- Entire system calibrated as a package

InnovaSonic 207i is ideal for common applications like thermal energy/ BTU measurement, cooling and heating fluid measurement, water & wastewater, leak detection in piping systems, monitoring & controlling of HVAC systems, fuel & oil consumption measurements, offshore oil & gas applications, and more.

“With the launch of the InnovaSonic 207i ultrasonic flow meter, Sierra is now the only USA company to design and manufacture what we call our BIG-3™ flow measurement technologies– Immersible Thermal, Vortex Shedding, and now Transit-Time Ultrasonic,” says Matthew Olin, President & CEO of Sierra Instruments. “The 207i is one of three advanced flow meter technologies Sierra has developed to help facility managers tackle tough flow energy management challenges.”

Learn more about the InnovaSonic 207i – [View Product Page](#). [Watch Video](#).

See how new ultrasonic flow meter from Sierra is making installation easier, [watch video](#).

About Sierra

A global leader in flow measurement and control for over 40 years, Sierra instruments designs and manufactures fluid flow measurement and control solutions for customers spanning across global industries as diverse as scientific research, oil & gas, energy management, semiconductor, clean energy, aerospace and biotech to name a few. In everything we do, we challenge the status quo and thrill in doing the “never before possible” to continually push our technologies and solutions to the next level. With over 150 locations in over 50 countries, Sierra is uniquely positioned to provide innovative products and lifetime support for the leading companies of today and the growth enterprises of tomorrow.

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